REMARKS

Claims 1, 2, 6, 7, 10, and 11 have been amended to more clearly define the subject matter in accordance with the description. Claim 3 has been cancelled, and the subject matter of claim 3 incorporated into claim 1 to further scope the invention. Claim 22 has been cancelled without prejudice. Claim 23 has been added to further scope the invention. No new subject matter was added by way of these amendments that are fully supported in the disclosure.

No Double Patenting

The Examiner has provisionally rejected claims 1-4 and 11-22 on the grounds of non-statutory obviousness-type double patenting with regards to claims 1-4 and 12-22 of copending Application No 10/679,181. In the interests of expediting allowance of this application, Applicants have amended independent claims 1 and 11 to include a limitation formerly in claim 6 and claim 22 has been cancelled without prejudice, thus obviating the double patenting rejection.

Claim Rejections – 35 USC§ 112

Claim 1 has been amended to obviate the 112 rejection.

Claim Rejections – 35 USC§ 102

The Examiner has alleged that original claims 1-5, 11, 12, 15-17, 21 and 22 are anticipated by Macromedia, Extending Dreamweaver (http://download.macromedia.com/pub/dreamweaver/extend/ext_dreamweaver4.zip) under 35 U.S.C. 102(b). Applicants respectfully request reconsideration.

Applicants submit that the document cited by the Examiner is different from the subject matter of the present patent application.

Macromedia provides information about how to program Dreamweaver extensions and explains the Dreamweaver API. It describes various functionality that Dreamweaver supports and describes how to use this functionality to enable one skilled in the art to add an extension in Dreamweaver. As outlined on page 8 of Macromedia, Dreamweaver extensions are written in JavaScript. The scripts can perform edits on the document using a Document Object Model (DOM), and they call C code that is packaged in a DLL.

By contrast, the claims of the present application are directed towards extending the interactivity of a presentation markup language. As outlined in the background of the current application, the use of scripts and code is problematic as web designers often do not have the required programming skills. The present application discloses a system and method that can overcome some of the problems associated with scripting.

Applicants have made some amendments to the independent claims that further clarify some differences between the claims and the Macromedia reference.

Claim 1

Applicants have amended claim 1 to include a flow control element as found in original claim 6. Claim 1 has been further amended to clarify that the designated elements are defined in a markup language.

The Examiner has rejected original claim 1, alleging that Macromedia discloses a system for extending interactivity of a presentation markup language at page 7, paragraph 1, lines 4 – 6. As outlined above, Macromedia teaches how to create extensions to the Dreamweaver program. In particular it teaches "Extensions are objects, commands, ... and behaviors that you create using the Dreamweaver application programming interface (API). This book [Macromedia] helps you write your own extensions by providing information about how to program each type of extension and by explaining the Dreamweaver API." (Page 7,

paragraph 1, lines 2 – 6). Having information on the Dreamweaver API and on how to create extensions for the Dreamweaver program, would not lead one skilled in the art to a system for extending interactivity of a presentation markup language as claimed.

The Examiner has further alleged that Macromedia teaches the collection of designated elements (page 7, paragraph 1, lines 2 – 4, page 13, paragraph 2, lines 2 – 3), each designated element comprising a namespace and attributes for describing features of the designated element (page 27, first table, page 208, paragraph 1, lines 1; page 236, paragraph 1). It appears that the Examiner is equating the collection of designated elements with the various types of extensions that can be created in Dreamweaver (objects, commands, menus, etc,). As previously indicated, the extensions that may be used to add functionality to the Dreamweaver program are not to be considered the same as the collection of designated elements as claimed. This is evidenced by the sections Macromedia that the Examiner has listed as teaching the attributes for describing features of the designated elements. The first table on page 27 describes attributes of a TREENODE which is used as a part of the representation of the Document Object Model as outlined in Macromedia page 13 paragraph 2. This is not an attribute of one of the extension types that have been equated to the collection of designated elements, but rather a data structure provided by the Dreamweaver application that can be used when creating Dreamweaver extensions. Pages 208 and 236 of Macromedia describes JavaScript functions that are supported by, and specific to, Dreamweaver as described on page 205 of Macromedia. One skilled in the art would readily appreciate that specific Dreamweaver functions do not disclose the attributes for describing features of the designated elements as claimed.

Claim 1 has been amended to clarify that the designated elements are defined in a markup language, and that the collection includes at least one flow control element. The flow

control element was claimed in original claim 6 which the Examiner rejected in view of Macromedia and SVG 1.1. The Examiner states that Macromedia does not specifically disclose behaviour elements for manipulating view behaviour with respect to the web application. The Examiner alleges that SVG discloses these features.

It is not clear to the Applicants if the Examiner believes that Macromedia teaches the rest of the features of original claim 6, or if these are also taught by SVG. Applicants will outline why neither reference teaches the flow control element. SVG describes the Scalable Vector Graphics Specification. One skilled in the art would realize that SVG 1.1 does not contemplate flow control elements. As described in the background of the current application, flow control features are not present in SVG (page 1, lines 8 – 13). SVG may be considered a presentation language that the current application extends the interactivity of.

As previously outlined, Macromedia teaches various functions that the Dreamweaver application supports for creating extensions to Dreamweaver. It does not disclose defining a collection of designated elements in a markup language. It further fails to disclose a designated flow control element described in the markup language. Macromedia teaches using JavaScript to control the created extensions. One skilled in the art would appreciate that JavaScript is not a markup language. The use of JavaScript when creating extensions to the Dreamweaver application does not suggest the use of a flow control element described in a markup language as required by the current independent claim.

Applicants respectfully submit that the subject matter of current claim 1 is not anticipated by Macromedia.

Claim 11

The Examiner has rejected original claim 11, alleging that Macromedia discloses a method of extending a presentation markup language (page 7, paragraph 1, lines 4-6). As

previously outlined, Macromedia does not teach or suggest extending a presentation markup language. The method as claimed involves the step of searching a document object model for a designated control element and calling a function associated with the designated control element. Macromedia does not teach these steps. As highlighted by the Examiner, Macromedia teaches manipulating a tree control element using general functions that operate on a document object model. The functions for traversing nodes and getting node data, do not teach or suggest a method of extending interactivity of a presentation markup language comprising searching for a designated control element having a name which follows a designated naming convention, and then calling a function call associated with the designated control element. The Macromedia document teaches general functions, it does not teach or suggest any methods of using the functions advantageously as currently claimed.

Applicants respectfully submit that the subject matter of current claim 11 is not anticipated by Macromedia.

Claim 22

Claim 22 has been cancelled, and so the Examiner's rejections will not be dealt with.

Claim 2

The Examiner has rejected original claim 2, alleging that Macromedia teaches all of the limitations of the claim. As previously outlined, Macromedia fails to disclose the limitations of current claim 1, which claim 2 depends on directly. Macromedia further fails to disclose the limitations of current claim 2. As highlighted by the Examiner, Macromedia teaches a method of instantiating a tree control. It describes the various attributes or tags of the tree control used by Dreamweaver. This does not suggest the initialization function for processing one or more designated elements in the document object model. The Examiner has further alleged that the step of calling functions associated with designated elements is taught by Macromedia, and in

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15

particular at page 28, last paragraph. Macromedia teaches a method getting data from a node of a tree element. This does not suggest calling a function associated with designated elements. The Examiner has further alleged that Macromedia teaches calling the functions associated with designated elements having names following a predetermined naming convention. Macromedia discloses a naming convention, however this does not suggest associating functions with designated elements based on a predetermined naming convention.

Applicants respectfully submit that the subject matter of current claim 2 is not anticipated by Macromedia.

Claims 3 – 5, 12, 15 – 17 and 21

The Examiner has rejected original claims 3 – 5, 12, 15 – 17 and 21, alleging that the subject matter of the claims is anticipated by Macromedia. The subject matter of original claim 3 has been incorporated into current claim 1, and claim 3 cancelled. As outlined for independent claims 1 and 11, which the claims depend on either directly or indirectly, Macromedia fails to disclose the claimed subject matter. Current claims 4 – 5, 12, 15 – 17 and 21, containing all of the limitations of the independent claims which they depend on, and serving to further limit the scope of the claims, also contain limitations not disclosed by Macromedia.

Applicants respectfully submit that the subject matter of current claims 4 – 5, 12, 15 – 17 and 21 is not anticipated by Macromedia.

Claim Rejections – 35 USC § 103

Claim 10

The Examiner has rejected original claim 10, alleging that the subject matter is unpatentable over SVG 1.1 in view of Cain et al. Claim 10 has been amended to recite limitations not taught by either reference. Claim 10 now recites:

A method of extending interactivity of presentation markup languages, the method comprising:

controlling statement flow of a web application, the method comprising the steps of:

searching for a flow control element in a document object model of the web application;

generating a function name associated with the flow control element;

calling the generated function name; and

processing child elements of the flow control element.

As previously outlined, SVG 1.1 does not disclose controlling statement flow of a web application. Furthermore Cain does not disclose any information that one skilled in the art could use to arrive at the claimed subject matter of amended claim 10. Thus, no combination of SVG 1.1 and Cain could be said to achieve claim 10.

Applicants respectfully submit that the subject matter of current claim 10 is unobvious and therefore patentable over SVG 1.1 in view of Cain.

Claims 13, 14 and 18 – 20

The Examiner has rejected original claims 13, 14 and 18 – 20, alleging that the subject matter is unpatentable over Macromedia in view of Cain. As previously outlined, Macromedia fails to disclose the limitations of independent claim 11, which the claims depend on. Furthermore Cain fails to teach generating a function name associated with the designated element or attribute as alleged by the Examiner. In column 12, Cain describes assigning a general name to a button. The general name is then modified by the user to a name associated with the particular button. As can be seen from figures 4H-I, the function that is called is named pushbutton, not the general name created which was Button3. This does not suggest the

limitations as claimed in current claims 13, 14 and 18-20. Thus, no combination of Macromedia and Cain could be said to achieve claim 11, or the several claims dependent thereon.

Applicants respectfully submit that the subject matter of current claim 13, 14 and 18-20 is patentable over Macromedia in view of Cain.

Claims 6 – 9

The Examiner has rejected original claims 6 – 9, alleging that the subject matter is unpatentable over Macromedia in view of SVG. As previously outlined, Macromedia fails to disclose the limitations of independent claim 1,which the claims depend on. In particular, SVG fails to disclose information that would lead one skilled in the art to disclose a focus element, a constraint element or a coordinate mapping element. Thus, no combination of Macromedia and SVG would achieve or render obvious claim 1, or claims 6-9 which dependent thereon.

Applicants respectfully submit that the subject matter of current claims 6 – 9 is patentable over Macromedia in view of Cain, and complies with 35 U.S.C. §103(a).
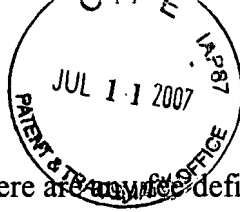
Closing

Given the above remarks, and having answered all of the Examiner's rejections, reconsideration and allowance of the claims is earnestly requested.

Enclosed is Form PTO-2038 in the amount of $1,020.00 to cover the cost of Petition for a Three Month Extension of Time.

JUL 1 1 2007

In the event there are any fee deficiencies or additional fees are payable, please charge them (or credit any overpayment) to our Deposit Account Number 08-1391.

Respectfully submitted,

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on _____July 6, 2007_____, at Tucson, Arizona.

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19